

CLAIMS

What is claimed is:

1 1. A method for automatically scaling an image, comprising:
2 initially scanning an original image at an initial scanning resolution;
3 detecting the relative positions of lateral edges of the original image;
4 determining the width of the original image based upon the positions of the
5 lateral edges;
6 making an initial size presumption of the original image based upon the
7 determined width;
8 making a first scanning resolution determination based upon the initial size
9 presumption; and
10 continuing scanning of the original image based upon the first scanning
11 resolution determination.

1 2. The method of claim 1, wherein the initial size presumption is based
2 upon an aspect ratio assumption.

1 3. The method of claim 1, further comprising adjusting the scanning
2 resolution based upon the first scanning resolution determination to obtain a new
3 scanning resolution.

1 4. The method of claim 3, wherein the scanning resolution is adjusted
2 downwardly.

1 5. The method of claim 3, wherein the new scanning resolution is
2 calculated so as to maximize the image within a screen of a display device.

1 6. The method of claim 3, wherein the new scanning resolution comprises
2 one of several possible predetermined scanning resolutions.

1 7. The method of claim 3, further comprising downsampling already
2 collected scanned data such that it has the same resolution as the new scanning
3 resolution.

1 8. The method of claim 1, further comprising making a second size
2 presumption if a bottom edge is not detected where expected based upon the initial
3 size presumption.

1 9. The method of claim 8, further comprising making a second scan
2 resolution determination based upon the second size presumption.

1 10. The method of claim 9, further comprising adjusting the scanning
2 resolution based upon the second scanning resolution determination to obtain a new
3 scanning resolution.

1 11. The method of claim 10, wherein the scanning resolution is adjusted
2 downwardly.

1 12. The method of claim 11, further comprising downsampling already
2 collected scanned data such that it has the same resolution as the new scanning
3 resolution.

1 13. A scanner comprising a computer readable medium, comprising:
2 logic configured to initially scan an original image at an initial scanning
3 resolution;
4 logic configured to detect the relative positions of lateral edges of the original
5 image;
6 logic configured to determine the width of the original image based upon the
7 positions of the lateral edges;
8 logic configured to make an initial size presumption of the original image
9 based upon the determined width;
10 logic configured to make a first scanning resolution determination based upon
11 the initial size presumption; and
12 logic configured to continue scanning of the original image based upon the
13 first scanning resolution determination.

1 14. The scanner of claim 13, further comprising logic configured to adjust
2 the scanning resolution based upon the first scanning resolution determination to
3 obtain a new scanning resolution.

1 15. The scanner of claim 14, further comprising logic configured to
2 downsample already collected scanned data such that it has the same resolution as the
3 new scanning resolution.

1 16. The scanner of claim 13, further comprising logic configured to make a
2 second size presumption if a bottom edge is not detected where expected based upon
3 the initial size presumption.

1 17. The scanner of claim 16, further comprising logic configured to make a
2 second scan resolution determination based upon the second size presumption.

1 18. The scanner of claim 17, further comprising logic configured to adjust
2 the scanning resolution based upon the second scanning resolution determination to
3 obtain a new scanning resolution.

1 19. The scanner of claim 18, further comprising logic configured to
2 downsample already collected scanned data such that it has the same resolution as the
3 new scanning resolution.

1 20 A scanner comprising a computer readable medium, comprising:
2 means for initially scanning an original image at an initial scanning resolution;
3 means for detecting the relative positions of lateral edges of the original
4 image;
5 means for determining the width of the original image based upon the
6 positions of the lateral edges;
7 means for making an initial size presumption of the original image based upon
8 the determined width;
9 means for making a first scanning resolution determination based upon the
10 initial size presumption; and
11 means for continuing scanning of the original image based upon the first
12 scanning resolution determination.

1 21. The scanner of claim 13, further comprising means for adjusting the
2 scanning resolution based upon the first scanning resolution determination to obtain a
3 new scanning resolution.

1 22. The scanner of claim 14, further comprising means for downsampling
2 already collected scanned data such that it has the same resolution as the new scanning
3 resolution.

1 23. The scanner of claim 13, further comprising means for making a
2 second size presumption if a bottom edge is not detected where expected based upon
3 the initial size presumption.

1 24. The scanner of claim 16, further comprising means for making a
2 second scan resolution determination based upon the second size presumption.

1 25. The scanner of claim 17, further comprising means for adjusting the
2 scanning resolution based upon the second scanning resolution determination to
3 obtain a new scanning resolution.

1 26. The scanner of claim 18, further comprising means for downsampling
2 already collected scanned data such that it has the same resolution as the new scanning
3 resolution.